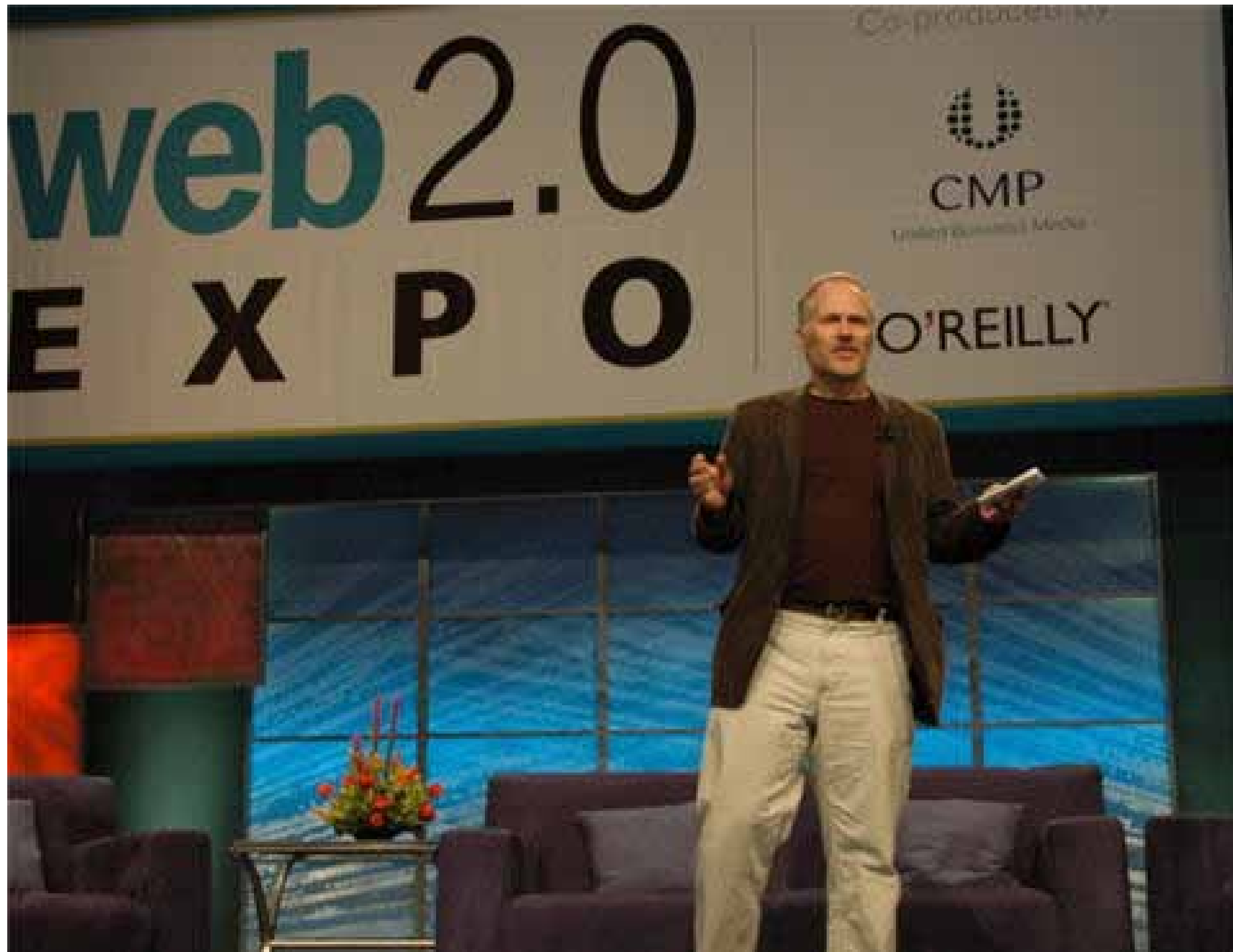




CCT460: ADVANCED WEB DESIGN

Drupal Basics



Tim O'Reilly on Drupal and the Internet Operating System






















Overview of Platform

1. Examination of file structure
2. Discussion of vocabulary
3. Various walkthroughs




































Overview of Platform

1.Examination of file structure





















































Me lecturing here is less illustrative than you exploring.
So, connect to your site via FTP and poke around and follow along so you can get your bearing.

 CHANGELOG.txt	2010-12-15 4:11 PM	45 KB	Plain Text
 COPYRIGHT.txt	2010-08-06 6:58 AM	4 KB	Plain Text
 cron.php	2006-08-09 3:42 AM	4 KB	PHP: ...cument
▶  includes	2010-12-15 4:16 PM	--	Folder
 index.php	2007-12-26 3:46 AM	4 KB	PHP: ...cument
 INSTALL.mysql.txt	2007-11-19 2:53 PM	4 KB	Plain Text
 INSTALL.pgsql.txt	2007-11-26 11:36 AM	4 KB	Plain Text
 install.php	2010-12-06 1:50 AM	49 KB	PHP: ...cument
 INSTALL.txt	2010-12-06 1:50 AM	16 KB	Plain Text
 LICENSE.txt	2009-01-06 12:27 PM	20 KB	Plain Text
 MAINTAINERS.txt	2009-04-29 1:15 PM	4 KB	Plain Text
▶  misc	2010-12-15 4:16 PM	--	Folder
▶  modules	2010-12-15 4:16 PM	--	Folder
▶  profiles	2010-12-15 4:16 PM	--	Folder
 robots.txt	2010-09-06 6:37 AM	4 KB	Plain Text
▶  scripts	2010-12-15 4:16 PM	--	Folder
▶  sites	2010-12-15 4:16 PM	--	Folder
▶  themes	2010-12-15 4:16 PM	--	Folder
 update.php	2010-11-03 8:29 AM	29 KB	PHP: ...cument
 UPGRADE.txt	2010-05-11 5:39 AM	8 KB	Plain Text
 xmlrpc.php	2005-12-10 2:26 PM	4 KB	PHP: ...cument

**Core - Drupal in the most rudimentary sense
(the bare platform)**

 actions.inc	2010-08-11 4:35 PM	16 KB	HTML ...ument
 batch.inc	2010-08-06 7:52 AM	12 KB	HTML ...ument
 bootstrap.inc	2010-12-15 8:21 AM	45 KB	HTML ...ument
 cache-install.inc	2007-08-07 4:39 AM	4 KB	HTML ...ument
 cache.inc	2010-11-03 3:07 PM	8 KB	HTML ...ument
 common.inc	2010-12-15 4:11 PM	135 KB	HTML ...ument
 database.inc	2010-11-03 10:02 AM	25 KB	HTML ...ument
 database.mysql-common.inc	2010-12-15 8:21 AM	16 KB	HTML ...ument
 database.mysql.inc	2010-12-15 3:41 PM	12 KB	HTML ...ument
 database.mysqli.inc	2010-12-15 3:41 PM	12 KB	HTML ...ument
 database.pgsql.inc	2010-12-15 3:41 PM	29 KB	HTML ...ument
 file.inc	2010-12-13 2:02 PM	57 KB	HTML ...ument
 form.inc	2010-11-04 5:55 AM	98 KB	HTML ...ument
 image.gd.inc	2008-01-15 5:17 AM	8 KB	HTML ...ument
 image.inc	2010-12-15 9:08 AM	12 KB	HTML ...ument
 install.inc	2009-02-16 5:25 AM	25 KB	HTML ...ument
 install.mysql.inc	2008-01-23 4:59 AM	8 KB	HTML ...ument
 install.mysqli.inc	2008-01-23 4:59 AM	8 KB	HTML ...ument
 install.pgsql.inc	2007-10-22 11:22 AM	8 KB	HTML ...ument
 language.inc	2010-03-22 8:18 AM	8 KB	HTML ...ument
 locale.inc	2010-08-11 3:42 PM	102 KB	HTML ...ument
 lock.inc	2010-05-11 5:30 AM	8 KB	HTML ...ument
 mail.inc	2010-06-02 8:07 AM	20 KB	HTML ...ument
 menu.inc	2010-12-09 6:57 AM	90 KB	HTML ...ument
 module.inc	2010-12-15 9:50 AM	20 KB	HTML ...ument
 pager.inc	2009-07-01 4:51 PM	16 KB	HTML ...ument
 path.inc	2010-11-04 6:27 AM	8 KB	HTML ...ument
 session.inc	2010-03-03 7:15 PM	8 KB	HTML ...ument
 tablesort.inc	2009-07-01 4:51 PM	8 KB	HTML ...ument
 theme.inc	2010-11-03 3:03 PM	74 KB	HTML ...ument
 theme.maintenance.inc	2010-03-03 7:15 PM	12 KB	HTML ...ument
 unicode.entities.inc	2010-12-15 8:50 AM	8 KB	HTML ...ument
 unicode.inc	2010-12-15 8:50 AM	20 KB	HTML ...ument
 xmlrpc.inc	2010-06-02 8:22 AM	16 KB	HTML ...ument
 xmlrpcs.inc	2010-06-02 8:52 AM	12 KB	HTML ...ument

**includes - various PHP functions for secondary tasks:
cron, cache, menu, path (URL), adding modules, etc.**

	ahah.js	2008-02-11 9:46 AM	8 KB	JavaSc...ument
	arrow-asc.png	2004-06-20 4:04 PM	4 KB	Portab...Image
	arrow-desc.png	2004-06-20 4:04 PM	4 KB	Portab...Image
	autocomplete.js	2008-01-04 6:53 AM	8 KB	JavaSc...ument
	batch.js	2007-10-21 2:59 PM	4 KB	JavaSc...ument
	blog.png	2004-06-20 4:04 PM	4 KB	Portab...Image
	collapse.js	2008-01-29 5:58 AM	4 KB	JavaSc...ument
	draggable.png	2007-11-14 4:49 AM	4 KB	Portab...Image
	drupal.js	2009-07-21 4:59 AM	12 KB	JavaSc...ument
	druplicon.png	2005-07-26 9:58 PM	4 KB	Portab...Image
	farbtastic	2010-12-15 4:16 PM	--	Folder
	favicon.ico	2007-09-17 4:41 AM	8 KB	Windo...image
	feed.png	2005-12-28 11:46 PM	4 KB	Portab...Image
	form.js	2007-09-12 2:29 PM	4 KB	JavaSc...ument
	forum-closed.png	2004-06-20 4:04 PM	4 KB	Portab...Image
	forum-default.png	2004-06-20 4:04 PM	4 KB	Portab...Image
	forum-hot-new.png	2004-06-20 4:04 PM	4 KB	Portab...Image
	forum-hot.png	2004-06-20 4:04 PM	4 KB	Portab...Image
	forum-new.png	2004-06-20 4:04 PM	4 KB	Portab...Image
	forum-sticky.png	2004-06-20 4:04 PM	4 KB	Portab...Image
	grippie.png	2006-12-05 4:03 PM	4 KB	Portab...Image
	jquery.form.js	2007-11-19 5:05 AM	8 KB	JavaSc...ument
	jquery.js	2008-06-25 5:38 AM	33 KB	JavaSc...ument
	menu-collapsed-rtl.png	2007-05-27 1:57 PM	4 KB	Portab...Image
	menu-collapsed.png	2004-06-20 4:04 PM	4 KB	Portab...Image
	menu-expanded.png	2004-06-20 4:04 PM	4 KB	Portab...Image
	menu-leaf.png	2006-02-09 3:36 AM	4 KB	Portab...Image
	powered-black-80x15.png	2005-06-18 12:33 PM	4 KB	Portab...Image
	powered-black-88x31.png	2005-06-18 12:33 PM	4 KB	Portab...Image
	powered-black-135x42.png	2005-06-18 12:33 PM	4 KB	Portab...Image
	powered-blue-80x15.png	2005-06-18 12:33 PM	4 KB	Portab...Image
	powered-blue-88x31.png	2005-06-18 12:33 PM	4 KB	Portab...Image
	powered-blue-135x42.png	2005-06-18 12:33 PM	4 KB	Portab...Image
	powered-gray-80x15.png	2005-06-18 12:33 PM	4 KB	Portab...Image
	powered-gray-88x31.png	2005-06-18 12:33 PM	4 KB	Portab...Image
	powered-gray-135x42.png	2005-06-18 12:33 PM	4 KB	Portab...Image
	print-rtl.css	2007-06-10 4:55 AM	4 KB	Casca...ument
	print.css	2007-06-10 4:55 AM	4 KB	Casca...ument
	progress.gif	2006-02-21 3:34 AM	4 KB	Graph...t (GIF)
	progress.js	2008-01-04 6:53 AM	4 KB	JavaSc...ument
	tabledrag.js	2009-06-18 8:24 AM	41 KB	JavaSc...ument
	tableheader.js	2009-03-30 8:48 AM	4 KB	JavaSc...ument
	tableselect.js	2007-11-19 7:15 AM	4 KB	JavaSc...ument
	teaser.js	2010-03-01 5:13 AM	4 KB	JavaSc...ument
	textarea.js	2008-01-17 2:31 PM	4 KB	JavaSc...ument
	throbber.gif	2005-05-24 8:14 PM	4 KB	Graph...t (GIF)
	tree-bottom.png	2007-11-14 4:49 AM	4 KB	Portab...Image
	tree.png	2007-11-14 4:49 AM	4 KB	Portab...Image
	watchdog-error.png	2005-01-09 4:50 AM	4 KB	Portab...Image
	watchdog-ok.png	2006-09-01 5:23 AM	4 KB	Portab...Image
	watchdog-warning.png	2005-01-09 4:50 AM	4 KB	Portab...Image
	xml.png	2004-06-20 4:04 PM	4 KB	Portab...Image

misc. – icons, a few tangential scripts

▶ folder aggregator	2010-12-15 4:16 PM	--	Folder
▶ folder block	2010-12-15 4:16 PM	--	Folder
▶ folder blog	2010-12-15 4:16 PM	--	Folder
▶ folder blogapi	2010-12-15 4:16 PM	--	Folder
▶ folder book	2010-12-15 4:16 PM	--	Folder
▶ folder color	2010-12-15 4:16 PM	--	Folder
▶ folder comment	2010-12-15 4:16 PM	--	Folder
▶ folder contact	2010-12-15 4:16 PM	--	Folder
▶ folder dblog	2010-12-15 4:16 PM	--	Folder
▶ folder filter	2010-12-15 4:16 PM	--	Folder
▶ folder forum	2010-12-15 4:16 PM	--	Folder
▶ folder help	2010-12-15 4:16 PM	--	Folder
▶ folder locale	2010-12-15 4:16 PM	--	Folder
▶ folder menu	2010-12-15 4:16 PM	--	Folder
▶ folder node	2010-12-15 4:16 PM	--	Folder
▶ folder openid	2010-12-15 4:16 PM	--	Folder
▶ folder path	2010-12-15 4:16 PM	--	Folder
▶ folder php	2010-12-15 4:16 PM	--	Folder
▶ folder ping	2010-12-15 4:16 PM	--	Folder
▶ folder poll	2010-12-15 4:16 PM	--	Folder
▶ folder profile	2010-12-15 4:16 PM	--	Folder
📄 README.txt	2008-01-25 2:47 PM	4 KB	Plain Text
▶ folder search	2010-12-15 4:16 PM	--	Folder
▶ folder statistics	2010-12-15 4:16 PM	--	Folder
▶ folder syslog	2010-12-15 4:16 PM	--	Folder
▶ folder system	2010-12-15 4:16 PM	--	Folder
▶ folder taxonomy	2010-12-15 4:16 PM	--	Folder
▶ folder throttle	2010-12-15 4:16 PM	--	Folder
▶ folder tracker	2010-12-15 4:16 PM	--	Folder
▶ folder translation	2010-12-15 4:16 PM	--	Folder
▶ folder trigger	2010-12-15 4:16 PM	--	Folder
▶ folder update	2010-12-15 4:16 PM	--	Folder
▶ folder upload	2010-12-15 4:16 PM	--	Folder
▶ folder user	2010-12-15 4:16 PM	--	Folder






modules - key functionality (walkthrough them)

Modules for your site don't go here. Only core goes here.

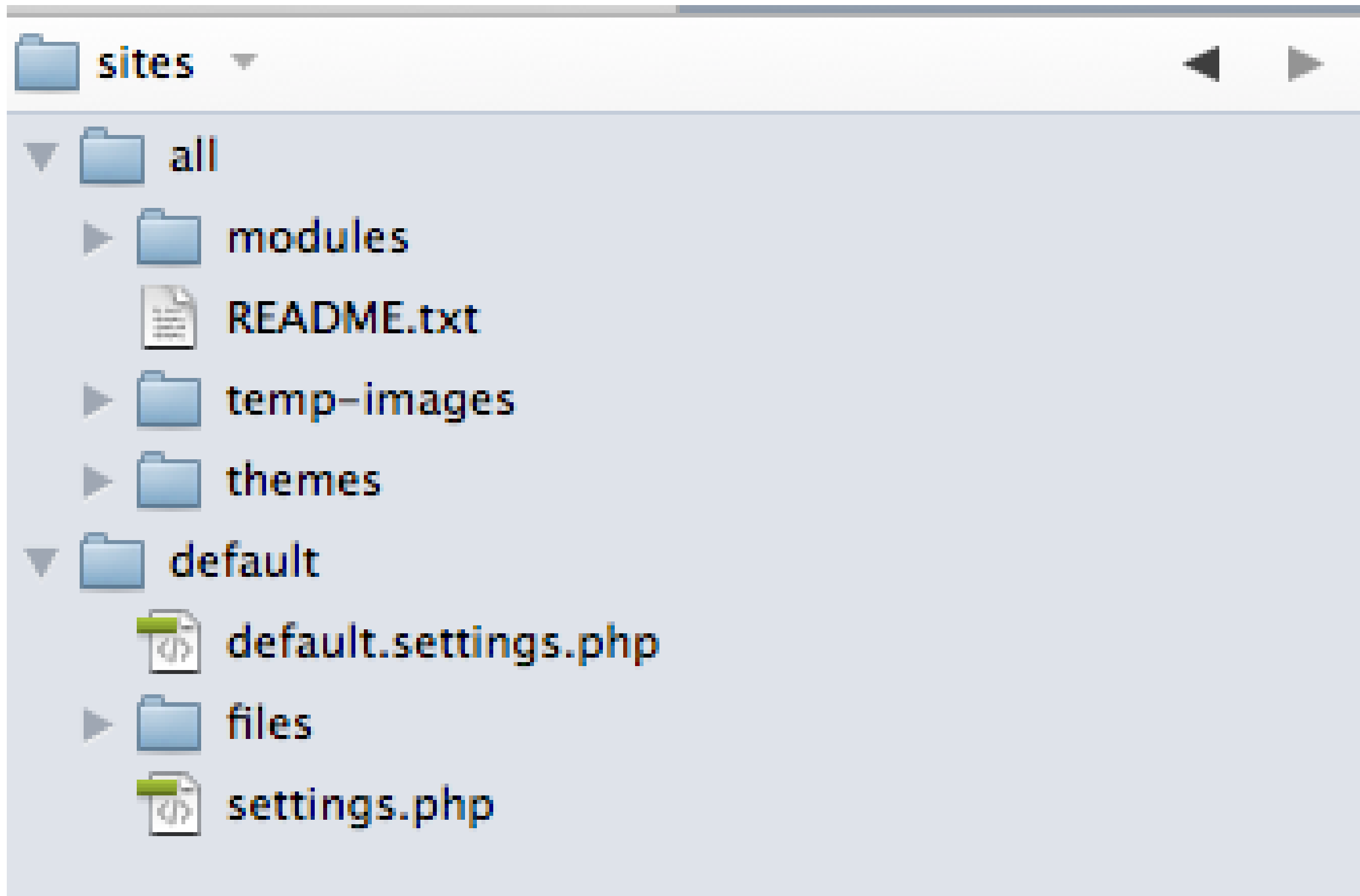
**Modules that you install should go at:
sites/all/modules**

▼  default	2010-12-15 4:16 PM	--	Folder
 default.profile	2007-12-17 7:43 AM	8 KB	Document

profiles - installation profiles (related to initial setup)

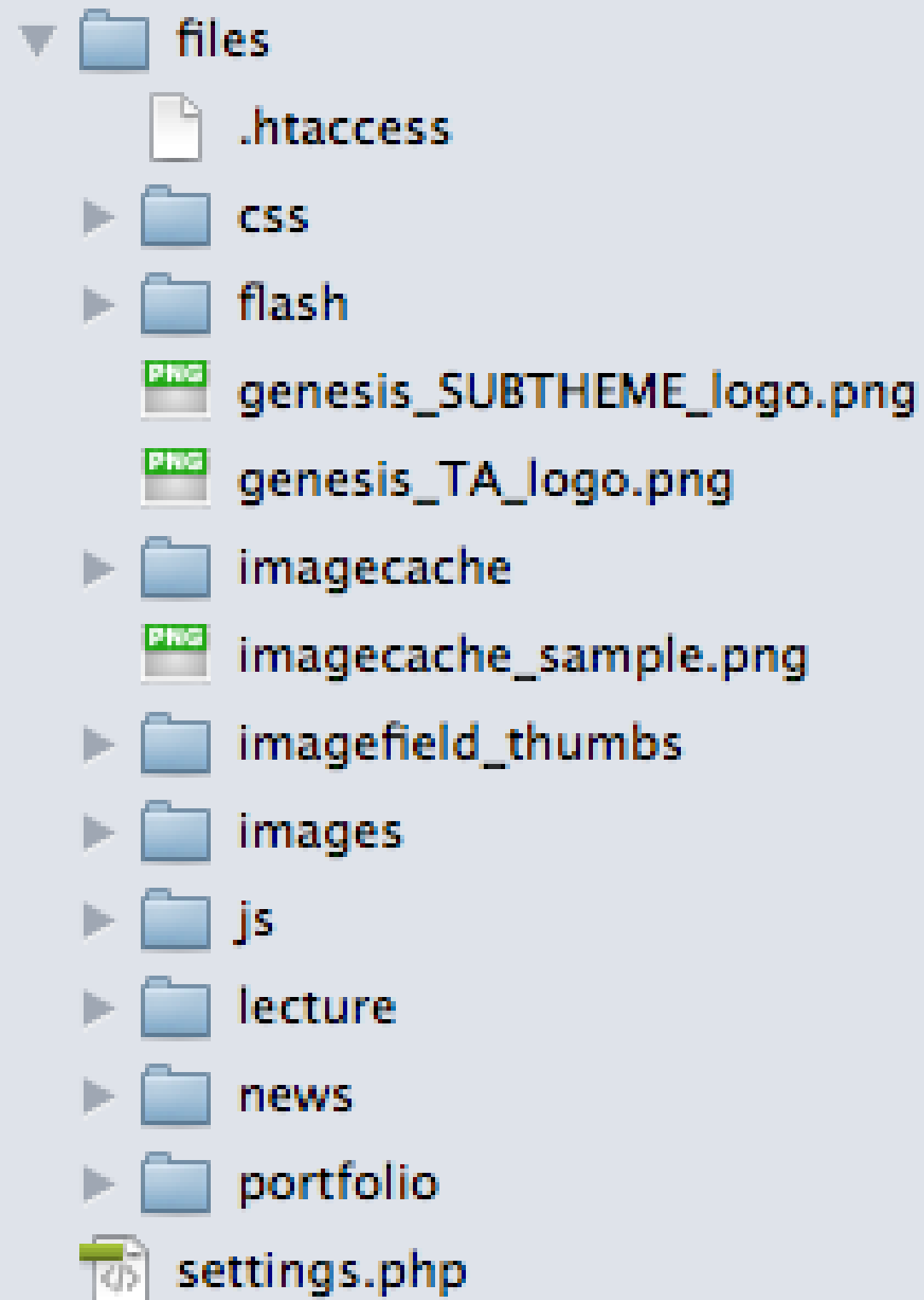
 code-clean.sh	2005-08-11 9:02 AM	4 KB	Plain Text File
 code-style.pl	2007-02-15 6:40 AM	8 KB	Plain Text File
 cron-curl.sh	2006-08-22 3:38 AM	4 KB	Plain Text File
 cron-lynx.sh	2006-08-22 3:38 AM	4 KB	Plain Text File
 drupal.sh	2007-07-02 10:41 AM	8 KB	Plain Text File

scripts - scripts for checking syntax, cleaning up code, running Drupal from the command line etc.









sites – very important!

Content for your site goes here



sites/default/files

▶  bluemarine	2010-12-15 4:16 PM	--	Folder
▶  chameleon	2010-12-15 4:16 PM	--	Folder
▶  engines	2010-12-15 4:16 PM	--	Folder
▶  garland	2010-12-15 4:16 PM	--	Folder
▶  pushbutton	2010-12-15 4:16 PM	--	Folder
 README.txt	2008-01-25 2:47 PM	4 KB	Plain Text

sites/themes

Default themes – themes for your site should not go here

**Themes you use should go at:
sites/all/themes**

Overview of Platform

- 1.Examination of file structure
2. Discussion of vocabulary
3. Various walkthroughs

Drupal Vocab

Administration Section: Control panel

Blocks: 'chunk' of content (i.e. linkroll)

Content types: Templates. For custom publishing workflows.

Core: Base platform (your site happens 'within' this)

Menus: Navigation

Module: Plug n' play functionality. Interdependent tools.

Node: A piece of content

Reports: Internal diagnostic (dblog module in core)

Permissions: Anonymous / authorized / admin

Site Maintenance: Online/Offline

Taxonomy: Tags, important

Theme: Skin for a theme, design/layout, CSS (front end)

Upgrade Script: PHP update, when replaced modules with newer versions

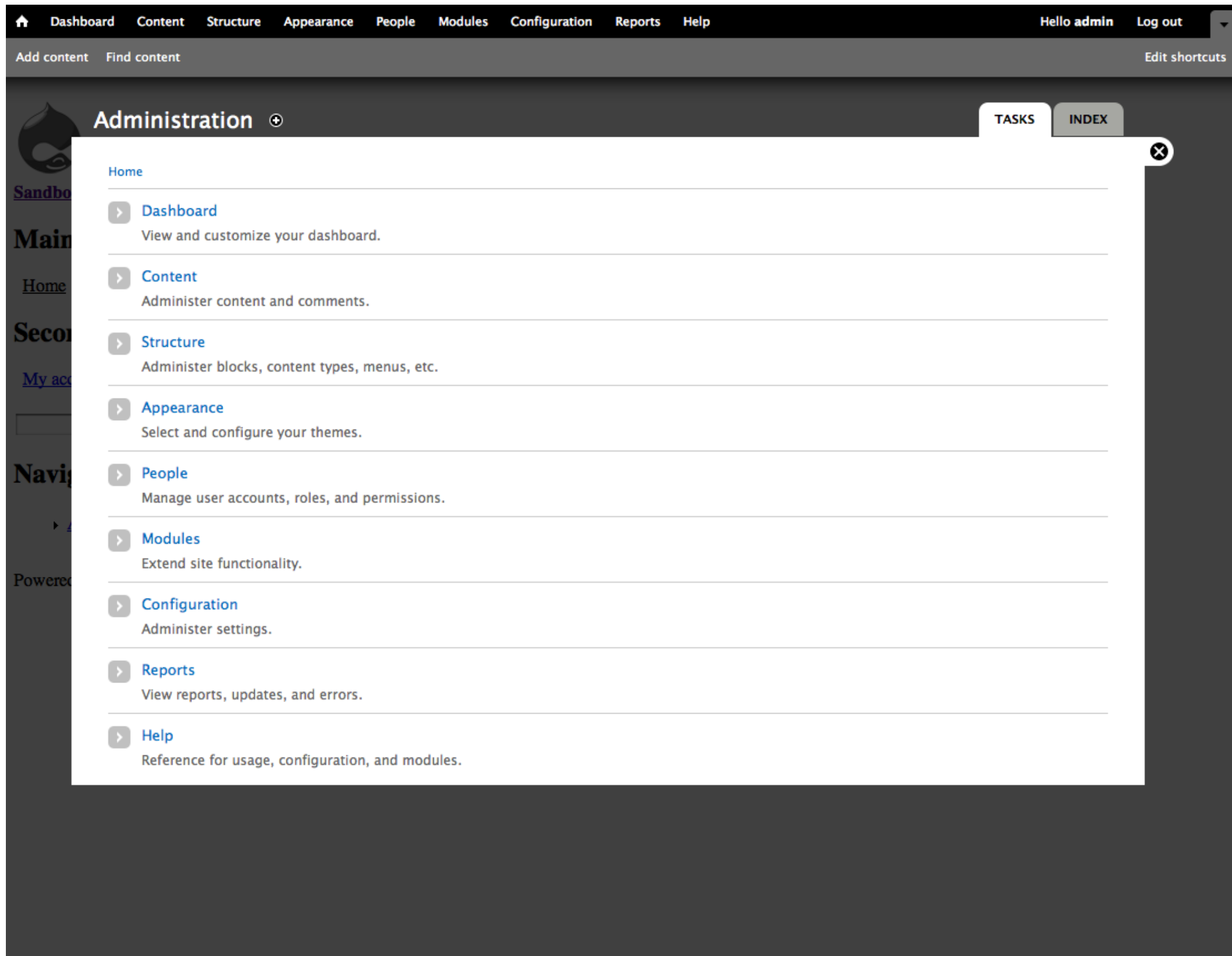
Users 1: Main admin account. (Tied to initial setup)

Views: Served content

<demo all of the above>

Overview of Platform


- 1.Examination of file structure
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Administration Section - Drupal's control panel admin

[Home](#) [Dashboard](#) [Content](#) [Structure](#) [Appearance](#) [People](#) [Modules](#) [Configuration](#) [Reports](#) [Help](#) [Hello admin](#) [Log out](#)

[Add content](#) [Find content](#) [Edit short](#)



Create Article ⊕

[Home](#) » [Add content](#)

Title *

Tags

Enter a comma-separated list of words to describe your content.

Body ([Edit summary](#))

Add a node - it couldn't be much simpler

- node/add
- page

Basic page

EDITMANAGE FIELDSMANAGE DISPLAYCOMMENT FIELDSCOMMENT DISPLAY

[Home](#) » [Administration](#) » [Structure](#) » [Content types](#)

Name *

Basic pageMachine name: page [\[Edit\]](#)

The human-readable name of this content type. This text will be displayed as part of the list on the *Add new content* page. It is recommended that this name begin with a capital letter and contain only letters, numbers, and spaces. This name must be unique.

Description

Use `basic pages` for your static content, such as an 'About us' page.

Describe this content type. The text will be displayed on the *Add new content* page.

Submission form settings

Title

Publishing options

Published

Display settings

Don't display post information

Comment settings

Hidden, Threading , 50 comments per page

Menu settings

Title field label *

Title

Preview before submitting

☐ Disabled

☒ Optional

☐ Required

Explanation or submission guidelines

This workflow is not fixed though - connects back to content types

These workflows can be designed and customized, the default flexibility is quite limited but with content types (and more modules) you can develop custom workflows. We'll start work with this soon.

OK, this is admittedly quite dry, and probably overwhelming, but all of this basic navigation will be second nature within the next week or so. Each of these admin menus will scale up in complexity once we start adding content and more modules.

Let's step away from this minutia and look at a case study

the WHITE HOUSE

PRESIDENT BARACK OBAMA


★★★★★

THE WHITE HOUSE
WASHINGTON

★★★★★

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 BLOG

PHOTOS & VIDEO

BRIEFING ROOM

ISSUES

the ADMINISTRATION

the WHITE HOUSE

our GOVERNMENT

TRAGEDY *in* ARIZONA

Speaking at a memorial event in Tucson, the President grieves the victims, praises the heroes, and calls on all Americans to remember what binds us together.

[Read the Remarks](#)


[Watch the Video](#)

1

2


3

4



The President & First Lady after his remarks in Tucson, White House Photo, Pete Souza, 1/12/11

FEATURED TOPICS




A New Chief of Staff

The President commends Pete Rouse for his amazing tenure as interim chief of staff, and explains why Bill Daley is the right person to take the reins.

[Watch the Video](#)

[BACK](#) | [NEXT](#)


SEARCH the SITE



Take health care into your own hands

[Learn How](#)

PHOTO of the DAY



THE BLOG

January 12, 2011 at 1:44 PM EST

The President Meets with Prime Minister Hariri on Stability and Justice in Lebanon

The President meets with Prime Minister Hariri of Lebanon amidst efforts by the Hizballah-led coalition to collapse the Lebanese government.

January 12, 2011 at 12:12 PM EST

Haiti: One Year Later

Patrick Gaspard, Director of the White House Office of Political Affairs and the highest ranking

WHITE HOUSE SCHEDULE

The President's Schedule

The Vice President's Schedule

FEATURED LEGISLATION

FDA Food Safety Modernization Act

Signed: Tuesday, January 4, 2011

James Zadroga 9/11 Health and Compensation Act of 2010

Signed: Sunday, January 2, 2011

<http://www.whitehouse.gov/>

What would a prestigious public facing office like the White House require from a CMS?

What 'content types' can you identify within this site?

How effectively does the site handle photo and video content?

Given the depth of the site, how intuitive is the navigation?

Overall, what aspects or functionality of this site do you consider successful and unsuccessful?



<http://vimeo.com/7669508>

Exercises:

- 1. Go to the 'Basic Orientation' page and work through the exercises.**